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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,896	02/20/2004	Ryutaro Oke	HITA-0517	4208
Stanley P. Fish	7590 02/26/2007		EXAM	INER
Reed Smith LLP			NGUYEN, DUNG T	
	Suite 1400 3110 Fairview Park Drive Falls Church, VA 22042-4503			PAPER NUMBER
Falls Church, V				2871
CHORTENED STATISTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	VMODE
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· 3 MC	NTHS	02/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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٠,		Application No.	Applicant(s)			
		10/781,896	OKE ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Dung Nguyen	2871			
Period fo	The MAILING DATE of this communication apports. Or Reply	pears on the cover sheet	with the correspondence address -	-		
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. D period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become a	IICATION. a reply be timely filed DNTHS from the mailing date of this communica ABANDONED (35 U.S.C. § 133).			
Status						
1)🖂	Responsive to communication(s) filed on 21 A	lovember 2006.				
<i>,</i> —	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowa		•	s is		
	closed in accordance with the practice under I	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.			
Dispositi	ion of Claims					
5)⊠ 6)□ 7)⊠	Claim(s) <u>2-15</u> is/are pending in the application 4a) Of the above claim(s) <u>3 and 4</u> is/are withdr Claim(s) <u>2,5,6,11 and 12</u> is/are allowed. Claim(s) <u>7-10,14-15</u> is/are rejected. Claim(s) <u>13</u> is/are objected to. Claim(s) are subject to restriction and/o	awn from consideration.				
		or election requirement.				
	ion Papers					
,	The specification is objected to by the Examine		–			
10)	The drawing(s) filed on is/are: a) acc	· · · · · · · · · · · · · · · · · · ·	·			
	Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	•	• •	21(d)		
11)	The oath or declaration is objected to by the Ex	<u> </u>				
	under 35 U.S.C. § 119	•				
12) a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	ts have been received. Is have been received in rity documents have bee u (PCT Rule 17.2(a)).	Application No n received in this National Stage			
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-152)			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/21/2006 has been entered.
- 2. Applicants' amendment dated 11/21/2006 has been received and entered. By the amendment, claims 2, 5-15 are now pending in the application. Claims 3-4 stand withdrawn from consideration.

Claim Rejections - 35 USC § 103

1. Claims 7-10 and 14-15 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto, US Patent Application Publication No. 2004/0174484, in view of Takeda et al., US Patent No. 6,724,452, as stated in the final office action.

Regarding the above claims, Matsumoto's figures 3-4 which disclose a liquid crystal display device comprising:

- an active matrix substrate (101) with a plurality of gate lines (102), drain lines (106), switching elements (TFTs), pixel electrodes (112), counter electrodes (111);
 - . another substrate (201);
- . the counter electrode being above the drain line (see figure 4), having a groove (slit 115) extending along the drain line direction as claimed (see figure 3);

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. an orientation film (116) as claimed.

Matsumoto does not disclose the groove not being cut through. Takeda et al. do disclose an electrode with a groove (depression 23A) (see figure 94). therefore, it would have been obvious to one skilled in the art at the invention was made to employ the Matsumoto's electrode having a groove that is not cut through the electrode as shown by Takeda to improve a viewing angle through the groove functioning as the domain regulating means (see col. 49, ln. 38).

Allowable Subject Matter

- 2. Claims 2, 5, 6, 11 and 12 are allowed.
- 3. Claim 13 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The following is a statement of reasons for the indication of allowable subject matter

 The references of record neither disclose nor make obvious a liquid crystal device comprising a

 combination of various elements as claimed, more specifically of the counter electrode has a

 groove which is recessed along the extending direction of the drain line between an end

 periphery of the counter electrode and the drain line such that the groove are formed at both sides

 of the drain line (claim 2) as well as a metal layer being formed between the groove and the

 orientation film (claim 11).

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Response to Arguments

5. Applicants' arguments filed 11/21/2006 have been fully considered but they are not persuasive.

Applicants' argument is that the cite references and their combinations fail to teach or disclose "groove being recessed along an extending direction of the drain line, said groove is formed in a central part of the respective electrode without cutting therethrough". In particular, Applicants point out that:

- a. the depression 23A, 23B of Takeda formed onto the conductive layer, it is not directly formed onto a pixel or counter electrode.
- b. the depressions are formed at the edges of the cell electrodes, rather than a central part of the common or cell electrode.
- c. Takeda's protrusion 20B provides only a shielding effect, but does not prevent the pixel or counter electrode from peeling off as the invention

The Examiner is not convinced by this argument since the same is true of the Takeda et al. depression 23A, 23B. In particular,

- a. the limitations on which the Applicant relies (i.e., groove directly formed onto a pixel or counter electrode) are not stated in the claims. It is the claims that define the claimed invention, and it is the claims, not specifications flat arc anticipated or unpatentable.
 Constant v. Advanced MicroDevices Inc., 7 USPQ 2d 1064.
- b. Applicants appear to believe that the depression is formed at the edges of the electrode (as shown in figure 68); however, there is no limited to formed a groove (depression) at the edges of the electrode (e.g., depression, substituting protrusion, also formed at a

central part of the electrode, e.g., protrusion formed over the electrode as shown in figures 68 or 109B and 110).

the limitations on which the Applicant relies (i.e., prevent the pixel or counter electrode from peeling off) are not stated in the claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DN 02/20/2007

Dung Nguyen Primary Examiner Art Unit 2871